



SAFETY DATA SHEET

U.S. Department of Labor
Occupational Safety & Health Administration

Polaprime DTM

SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation
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PRODUCT IDENTIFIER: Polaprime DTM
RECOMMENDED USE: Industrial Primer

SECTION 2 – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

Skin: No irritation hazard in normal industrial use.

Eyes: No irritation hazard in normal industrial use.

Inhalation: No irritation hazard in normal industrial use.

Ingestion: Ingestion of large amounts may cause nausea and/or constipation.

Sensitization: Does not cause sensitization.

SIGNAL WORD: Warning - No hazard in normal industrial use.

HAZARD STATEMENTS: None

PICTOGRAMS: None Necessary

PRECAUTIONARY STATEMENTS:

Prevention:

- **Do Not** handle until all safety precautions have been read and understood.
- **Do Not** breathe dust or spray.
- **Do Not** get in eyes, on skin, or on clothing.
- Wash thoroughly after handling.
- **Do Not** eat, drink or smoke when using this product.

Response:

- **Skin:** Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.
- **Eyes:** Use eyewash to remove substance from eyes. Get medical advice if irritation develops.
- **Inhalation:** Call a POISON CENTER/ doctor if spray or dust is inhaled
- **Ingestion:** **Do Not** induce vomiting. Get Medical advice/attention if you feel unwell; rinse mouth.

Storage:

- Store in a cool dry place.
- **Do Not** allow this material to freeze.

Disposal:

- Waste disposal should be in accordance with existing federal, state and local environmental control laws.

SECTION 3 – COMPOSITION

| <u>CHEMICAL NAME</u> | <u>CAS #</u> | <u>APPROX %</u> |
|---|--------------|-----------------|
| Triethylamine | 121-44-8 | 2.5 |
| Polyurethane Dispersion | Trade Secret | 25 |
| Magnesium Silicate | 14807-96-6 | 16 |
| Magnesite | 546-93-0 | 7 |
| Bismuth Vanadate | 14059-33-7 | 2.5 |
| Diethylene Glycol Monobutyl Ether | 112-34-5 | 3.5 |
| 2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate | 25265-77-4 | 3.5 |
| Water | 7732-18-5 | 40 |

SECTION 4 – FIRST AID MEASURES

Skin: Wash with soap and water.

Eyes: Flush with plenty of water to remove any substance in the eyes. Remove contact lenses if present. Seek medical advice if irritation develops.

Inhalation: If mist (over spray) or dust (from sanding) is inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call for medical attention.

Ingestion: **Do Not** induce vomiting. Seek medical attention if symptoms develop.

SECTION 5 – FIRE-FIGHTING MEASURES

Flash point: Non Flammable.

Flammable limits: None Established.

Extinguishing media: Water spray, foam dry chemical or carbon dioxide. Use whatever media deemed appropriate for surrounding fire.

Special fire fighting procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual fire & explosion hazards: There may be a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

Decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Wear safety glasses when handling this product.
- No adverse health effects expected from the clean-up of spilled material.

Cleanup procedures:

- Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal.
- Keep spilled product out of sewers, watersheds, or water systems.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling:

- No special handling instructions due to toxicity.
- This product contains limited amounts of residual monomer. Under normal handling and use conditions the residual monomer should not present a hazard.
- In storage the monomer will migrate from the emulsion and establish equilibrium between the headspace in the storage container and the liquid emulsion.
- Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion.

Recommendations on the conditions for safe storage: Store in a cool, dry place.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION:

Exposure limits:

| CHEMICAL NAME | PEL | TLV (ACGIH) | NIOSH IDLH |
|-----------------------------------|---------------------|-----------------------------|------------|
| Triethylamine | TWA: 10 ppm (OSHA); | TWA: 1 PPM Skin; STEL: 3ppm | 200 ppm |
| Diethylene Glycol Monobutyl Ether | N/A | TWA: 10 ppm | N/A |

Engineering controls: Ensure adequate ventilation, especially in confined areas, showers, eyewash stations, ventilation systems.

Individual protection measures: Not normally considered a significant hazard.

Inhalation protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA respiratory protection should be worn.

Eye protection: Wear tightly fitting safety goggles when handling this product.

Skin and body protections: Wear protective gloves and protective clothing to avoid skin contact.

Other hygienic practices and protection equipment: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Low viscosity liquid

Physical state: Liquid

Color: Orange

Odor: Mild soapy odor

Odor threshold: None established

pH: 8.5

Melting point/freezing point: 32°F Freezing point

Initial boiling point and boiling range: 212°F Boiling point

Flash point: Non flammable

Evaporation rate: 1.0 (water =1)

Flammability: Non flammable

Upper/lower flammability or explosive limits: None established

Vapor pressure: 23 hPa (17 mmHg) @ 68°F (20°C)

Vapor density: 1.24 g/cm³ @ 68°F (20°C)

Relative density: 1.21 kg/Lt

Solubility: Soluble with water and alcohol

Partition coefficient: n-octanol/water: None established

Auto-ignition temperature: None established

Decomposition temperature: 392°F (200°C)

Viscosity: 70 Krebs units @ 68°F (20°C)

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical stability: Stable under recommended storage conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides. Thermal decomposition can lead to release of irritating gases and vapors.

Conditions to avoid: Do not freeze, coagulation of solids may occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

The following information regarding health hazards is based upon third-party research studies.

Effects of Acute Exposure:

Oral: Based on acute toxicity values, not classified.

Inhalation: No adverse effect observed.

Dermal: Based on acute toxicity values, not classified.

Effects from short and long term exposure: No known chronic effects based on supplied information.

Numerical measures of toxicity:

| CHEMICAL NAME | Oral LD50 | Dermal LD50 | Inhalation |
|---|--------------------|----------------------|------------------------------|
| Triethylamine | 460 mg/kg (rat) | 415 mg/kg (rabbit) | LC50 - 1250 ppm (rat) 4 hrs. |
| Diethylene Glycol Monobutyl Ether | 2410 mg/kg (mouse) | 2764 mg/kg (rabbit) | LC0 - 2100 ppm (rat) 4 hrs. |
| 2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate | 6500 mg/kg (rat) | 15200 mg/kg (rabbit) | LC50 - 3550 ppm (rat) 6 hrs. |

Symptoms associated with exposure: No Adverse effect observed.

Chemical listed in NTP or IARC: No component of this product present at levels greater than or equal to 0.1% is listed with NTP or IARC.

SECTION 12 – ECOLOGICAL INFORMATION

Data from toxicity test (aquatic and/or terrestrial organism where available):

| CHEMICAL NAME | Algae/Aquatic Plants - ErC 50 | Fish - LC50 | Toxicity to Microorganism | Crustacea (Aquatic Invertebrates) |
|---|---|---|---------------------------|------------------------------------|
| Triethylamine | N/A | 43.7 mg/l (Pimephales promelas) 96 hrs. | N/A | 200 mg/l (Daphnia magna) 48 hrs. |
| 2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate | 15 mg/l (Pseudokirchneriella subcapitata) 72 hrs. | 33 mg/l (Fathead Minnow) 96 hrs. | N/A | 147.8 mg/l (Daphnia magna) 48 hrs. |

Biodegradation: Partially biodegradable (28 day, ready biodegradability: CO² Evolution test).

Bioaccumulation potential: This material is not expected to bioaccumulate.

Mobility in soil: Log K_{ow}: 2.3 -3.2 @25°C

Other adverse effects: No additional information available

SECTION 13 – DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14 – TRANSPORT INFORMATION

| | |
|--------------------------------|-------|
| UN # | N/A |
| UN PROPER SHIPPING NAME: | Paint |
| HAZARD CLASS: | N/A |
| PACKING GROUP: | N/A |
| ENVIRONMENTAL HAZARDS: | N/A |
| GUIDANCE ON TRANSPORT IN BULK: | N/A |

Transport labels required: This product is not regulated by the D.O.T.

SECTION 15 – REGULATORY INFORMATION

US Federal Regulation:

SARA 311/313 Hazard Categories: None of the ingredients of this product are subject to SARA 311-313

| CHEMICAL NAME | CWA reportable quantities | CWA Toxic Pollutants | CWA Priority Pollutants | CWA Hazardous Substances | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity RQ |
|---------------|---------------------------|----------------------|-------------------------|--------------------------|--------------------------|----------------|------------------------|
| Triethylamine | 5000 lbs | - | - | X | 5000 lbs | - | 5000 lbs |

US State Right to Know Regulations: New Jersey, Massachusetts, Pennsylvania, Rhode Island

| CHEMICAL NAME | CAS # |
|---|------------|
| Triethylamine | 121-44-8 |
| Diethylene Glycol Monobutyl Ether | 112-34-5 |
| 2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate | 25265-77-4 |

CA Prop 65: This product does not contain any proposition 65 chemicals.

Canada: DSL inventory compliant.

SECTION 16 – OTHER INFORMATION (HMIS RATING)

| | |
|---------------------|---|
| Health | 1 |
| Flammability | 0 |
| Physical Hazard | 0 |
| Personal Protection | B |

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